

0570  
0574

# 8



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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/039,645

DATE: 05/13/2002

TIME: 08:53:08

Input Set : A:\00398.510002.SEQLIST.TXT

Output Set: N:\CRF3\05102002\J039645.raw

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4 <110> APPLICANT: Kopin, Alan S.
5   Beinborn, Martin
7 <120> TITLE OF INVENTION: Constitutively Active, Hypersensitive,
8   and Nonfunctional Receptors as Novel Therapeutic Agents
11 <130> FILE REFERENCE: 00398/510002
13 <140> CURRENT APPLICATION NUMBER: US 10/039,645
14 <141> CURRENT FILING DATE: 2001-10-25
16 <150> PRIOR APPLICATION NUMBER: US 60/243,550
17 <151> PRIOR FILING DATE: 2000-10-26
19 <160> NUMBER OF SEQ ID NOS: 87
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0
23 <210> SEQ ID NO: 1
24 <211> LENGTH: 398
25 <212> TYPE: PRT
26 <213> ORGANISM: Homo sapiens
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30 1          5          10          15
31 Leu Ala Gln Ala Ser Cys Ser Pro Ala Pro Gly Ser Trp Leu Asn Leu
32          20          25          30
33 Ser His Val Asp Gly Asn Gln Ser Asp Pro Cys Gly Leu Asn Arg Thr
34          35          40          45
35 Gly Leu Gly Gly Asn Asp Ser Leu Cys Pro Gln Thr Gly Ser Pro Ser
36          50          55          60
37 Met Val Thr Ala Ile Thr Ile Met Ala Leu Tyr Ser Ile Val Cys Val
38 65          70          75          80
39 Val Gly Leu Phe Gly Asn Phe Leu Val Met Tyr Val Ile Val Arg Tyr
40          85          90          95
41 Thr Lys Met Lys Thr Ala Thr Asn Ile Tyr Ile Phe Asn Leu Ala Leu
42          100         105         110
43 Ala Asp Ala Leu Ala Thr Ser Thr Leu Pro Phe Gln Ser Val Asn Tyr
44          115         120         125
45 Leu Met Gly Thr Trp Pro Phe Gly Thr Ile Leu Cys Lys Ile Val Ile
46          130         135         140
47 Ser Ile Asp Tyr Tyr Asn Met Phe Thr Ser Ile Phe Thr Leu Cys Thr
48 145         150         155         160
49 Met Ser Val Asp Arg Tyr Ile Ala Val Cys His Pro Val Lys Ala Leu
50          165         170         175
51 Asp Phe Arg Thr Pro Arg Asn Ala Lys Ile Val Asn Val Cys Asn Trp
52          180         185         190
53 Ile Leu Ser Ser Ala Ile Gly Leu Pro Val Met Phe Met Ala Thr Thr
54          195         200         205
55 Lys Tyr Arg Gln Gly Ser Ile Asp Cys Thr Leu Thr Phe Ser His Pro

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56      210      215      220
57 Thr Trp Tyr Trp Glu Asn Leu Leu Lys Ile Cys Val Phe Ile Phe Ala
58 225      230      235      240
59 Phe Ile Met Pro Ile Leu Ile Ile Thr Val Cys Tyr Gly Leu Met Ile
60      245      250      255
61 Leu Arg Leu Lys Ser Val Arg Met Leu Ser Gly Ser Lys Glu Lys Asp
62      260      265      270
63 Arg Asn Leu Arg Arg Ile Thr Arg Met Val Leu Val Val Val Ala Val
64      275      280      285
65 Phe Ile Val Cys Trp Thr Pro Ile His Ile Tyr Val Ile Ile Lys Ala
66      290      295      300
67 Leu Ile Thr Ile Pro Glu Thr Thr Phe Gln Thr Val Ser Trp His Phe
68 305      310      315      320
69 Cys Ile Ala Leu Gly Tyr Thr Asn Ser Cys Leu Asn Pro Val Leu Tyr
70      325      330      335
71 Ala Phe Leu Asp Glu Asn Phe Lys Arg Cys Phe Arg Glu Phe Cys Ile
72      340      345      350
73 Pro Thr Ser Ser Thr Ile Glu Gln Asn Ser Thr Arg Val Arg Gln
74      355      360      365
75 Asn Thr Arg Glu His Pro Ser Thr Ala Asn Thr Val Asp Arg Thr Asn
76      370      375      380
77 His Gln Leu Glu Asn Leu Glu Ala Glu Thr Ala Pro Leu Pro
78 385      390      395
81 <210> SEQ ID NO: 2
82 <211> LENGTH: 11
83 <212> TYPE: PRT
84 <213> ORGANISM: Homo sapiens
86 <400> SEQUENCE: 2
87 Val Ser Ile Val Leu Glu Thr Thr Ile Ile Leu
88 1      5      10
91 <210> SEQ ID NO: 3
92 <211> LENGTH: 11
93 <212> TYPE: PRT
94 <213> ORGANISM: Homo sapiens
96 <400> SEQUENCE: 3
97 Arg Glu Arg Lys Ala Thr Lys Thr Leu Gly Ile
98 1      5      10
101 <210> SEQ ID NO: 4
102 <211> LENGTH: 11
103 <212> TYPE: PRT
104 <213> ORGANISM: Homo sapiens
106 <400> SEQUENCE: 4
107 Asn Glu Gln Lys Ala Cys Lys Val Leu Gly Ile
108 1      5      10
111 <210> SEQ ID NO: 5
112 <211> LENGTH: 11
113 <212> TYPE: PRT
114 <213> ORGANISM: Homo sapiens
116 <400> SEQUENCE: 5

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Output Set: N:\CRF3\05102002\J039645.raw

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117 Asn Glu Asp Asp Ala Ser Lys Val Leu Gly Ile
118 1          5          10
121 <210> SEQ ID NO: 6
122 <211> LENGTH: 11
123 <212> TYPE: PRT
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126 <400> SEQUENCE: 6
127 Phe Ala Ile Val Gly Asn Ile Leu Val Ile Leu
128 1          5          10
131 <210> SEQ ID NO: 7
132 <211> LENGTH: 11
133 <212> TYPE: PRT
134 <213> ORGANISM: Homo sapiens
136 <400> SEQUENCE: 7
137 Cys Ala Ile Ser Ile Asp Arg Tyr Ile Gly Val
138 1          5          10
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142 <211> LENGTH: 11
143 <212> TYPE: PRT
144 <213> ORGANISM: Homo sapiens
146 <400> SEQUENCE: 8
147 Cys Ala Ile Ser Ile Asp Arg Tyr Ile Gly Val
148 1          5          10
151 <210> SEQ ID NO: 9
152 <211> LENGTH: 11
153 <212> TYPE: PRT
154 <213> ORGANISM: Homo sapiens
156 <400> SEQUENCE: 9
157 Ala Val Asp Val Leu Cys Cys Thr Ala Ser Ile
158 1          5          10
161 <210> SEQ ID NO: 10
162 <211> LENGTH: 11
163 <212> TYPE: PRT
164 <213> ORGANISM: Homo sapiens
166 <400> SEQUENCE: 10
167 Arg Glu Lys Lys Ala Ala Lys Thr Leu Gly Ile
168 1          5          10
171 <210> SEQ ID NO: 11
172 <211> LENGTH: 12
173 <212> TYPE: PRT
174 <213> ORGANISM: Homo sapiens
176 <400> SEQUENCE: 11
177 Glu Glu Pro Phe Tyr Ala Leu Phe Ser Ser Leu Gly
178 1          5          10
181 <210> SEQ ID NO: 12
182 <211> LENGTH: 9
183 <212> TYPE: PRT
184 <213> ORGANISM: Homo sapiens
186 <400> SEQUENCE: 12

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DATE: 05/13/2002

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Input Set : A:\00398.510002.SEQLIST.TXT

Output Set: N:\CRF3\05102002\J039645.raw

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188 1 5
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198 1 5 10
201 <210> SEQ ID NO: 14
202 <211> LENGTH: 10
203 <212> TYPE: PRT
204 <213> ORGANISM: Homo sapiens
206 <400> SEQUENCE: 14
207 Glu Lys Arg Phe Thr Phe Val Leu Ala Val
208 1 5 10
211 <210> SEQ ID NO: 15
212 <211> LENGTH: 13
213 <212> TYPE: PRT
214 <213> ORGANISM: Homo sapiens
216 <400> SEQUENCE: 15
217 Ser Leu Val Lys Glu Lys Lys Ala Ala Arg Thr Leu Ser
218 1 5 10
221 <210> SEQ ID NO: 16
222 <211> LENGTH: 10
223 <212> TYPE: PRT
224 <213> ORGANISM: Homo sapiens
226 <400> SEQUENCE: 16
227 Lys Lys Val Thr Arg Thr Ile Leu Ala Ala
228 1 5 10
231 <210> SEQ ID NO: 17
232 <211> LENGTH: 13
233 <212> TYPE: PRT
234 <213> ORGANISM: Homo sapiens
236 <400> SEQUENCE: 17
237 Thr Trp Thr Pro Tyr Asn Ile Met Val Leu Val Asn Thr
238 1 5 10
241 <210> SEQ ID NO: 18
242 <211> LENGTH: 21
243 <212> TYPE: PRT
244 <213> ORGANISM: Homo sapiens
246 <400> SEQUENCE: 18
247 Ala Ile Leu Leu Ala Phe Ile Ile Thr Trp Thr Pro Tyr Asn Ile Met
248 1 5 10 15
249 Val Leu Val Ser Thr
250 20
253 <210> SEQ ID NO: 19
254 <211> LENGTH: 15
255 <212> TYPE: PRT

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Input Set : A:\00398.510002.SEQLIST.TXT

Output Set: N:\CRF3\05102002\J039645.raw

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256 <213> ORGANISM: Homo sapiens
258 <400> SEQUENCE: 19
259 Tyr Asn Ile Met Val Leu Val Ser Thr Phe Cys Asp Lys Cys Val
260 1 5 10 15
263 <210> SEQ ID NO: 20
264 <211> LENGTH: 11
265 <212> TYPE: PRT
266 <213> ORGANISM: Homo sapiens
268 <400> SEQUENCE: 20
269 Arg Lys Ala Phe Gln Gly Leu Leu Cys Cys Ala
270 1 5 10
273 <210> SEQ ID NO: 21
274 <211> LENGTH: 14
275 <212> TYPE: PRT
276 <213> ORGANISM: Homo sapiens
278 <400> SEQUENCE: 21
279 Phe Cys Leu Lys Glu His Lys Ala Leu Lys Thr Leu Gly Ile
280 1 5 10
283 <210> SEQ ID NO: 22
284 <211> LENGTH: 15
285 <212> TYPE: PRT
286 <213> ORGANISM: Homo sapiens
288 <400> SEQUENCE: 22
289 Ser Phe Lys Met Ser Phe Lys Arg Glu Thr Lys Val Leu Lys Thr
290 1 5 10 15
293 <210> SEQ ID NO: 23
294 <211> LENGTH: 15
295 <212> TYPE: PRT
296 <213> ORGANISM: Homo sapiens
298 <400> SEQUENCE: 23
299 Ala Pro Asp Thr Ser Ile Lys Lys Glu Thr Lys Val Leu Lys Thr
300 1 5 10 15
303 <210> SEQ ID NO: 24
304 <211> LENGTH: 11
305 <212> TYPE: PRT
306 <213> ORGANISM: Homo sapiens
308 <400> SEQUENCE: 24
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310 1 5 10
313 <210> SEQ ID NO: 25
314 <211> LENGTH: 11
315 <212> TYPE: PRT
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318 <400> SEQUENCE: 25
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320 1 5 10
323 <210> SEQ ID NO: 26
324 <211> LENGTH: 12
325 <212> TYPE: PRT

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VERIFICATION SUMMARY

DATE: 05/13/2002

PATENT APPLICATION: US/10/039,645

TIME: 08:53:09

Input Set : A:\00398.510002.SEQLIST.TXT

Output Set: N:\CRF3\05102002\J039645.raw